

Learning to Fly: The Wright Brother's Adventure			
2004 Science			
Grade Level Expectations			
<b>Louisiana Science</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Society	LA	SCI.6.SI.26	Use and describe alternate methods for investigating different types of testable questions
1900: Kitty Hawks	LA	SCI.6.SI.4	Design, predict outcomes, and conduct experiments to answer guiding questions
1900: Kitty Hawks	LA	SCI.6.PS.20	Draw and label a diagram to represent forces acting on an object
1901: The First Improvement	LA	SCI.6.SI.5	Identify independent variables, dependent variables, and variables that should be controlled in designing an experiment
1901: The First Improvement	LA	SCI.6.PS.19	Identify forces acting on all objects
1901: The First Improvement	LA	SCI.6.PS.20	Draw and label a diagram to represent forces acting on an object
New Data	LA	SCI.6.SI.12	Use data and information gathered to develop an explanation of experimental results
1902: Success at Last	LA	SCI.6.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
1903: Powered Flight	LA	SCI.6.SI.4	Design, predict outcomes, and conduct experiments to answer guiding questions
1903: Powered Flight	LA	SCI.6.SI.14	Develop models to illustrate or explain conclusions reached through investigation
1904: Improvement in Dayton	LA	SCI.6.SI.19	Communicate ideas in a variety of ways (e.g., symbols, illustrations, graphs, charts, spreadsheets, concept maps, oral and written reports, equations)
1904: Improvement in Dayton	LA	SCI.6.PS.20	Draw and label a diagram to represent forces acting on an object
1904: Improvement in Dayton	LA	SCI.6.PS.21	Determine the magnitude and direction of unbalanced (i.e., net) forces acting on an object
1904: Improvement in Dayton	LA	SCI.6.PS.23	Predict the direction of a force applied to an object and how it will change the speed and direction of the object
Learning to Fly: The Wright Brother's Adventure			
2004 Science			
Grade Level Expectations			
<b>Louisiana Science</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
1901: The First Improvement	LA	SCI.7.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement

New Data	LA	SCI.7.SI.4	Design, predict outcomes, and conduct experiments to answer guiding questions
New Data	LA	SCI.7.SI.12	Use data and information gathered to develop an explanation of experimental results
New Data	LA	SCI.7.SI.22	Use evidence and observations to explain and communicate the results of investigations
1902: Success at Last	LA	SCI.7.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
1903: Powered Flight	LA	SCI.7.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
1904: Improvement in Dayton	LA	SCI.7.SI.22	Use evidence and observations to explain and communicate the results of investigations
<b>Learning to Fly: The Wright Brother's Adventure</b>			
<b>2004 Science</b>			
<b>Grade Level Expectations</b>			
<b>Louisiana Science</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Society	LA	SCI.8.SI.2	Identify problems, factors, and questions that must be considered in a scientific investigation
1901: The First Improvement	LA	SCI.8.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
1901: The First Improvement	LA	SCI.8.PS.7	Explain the relationships among force, mass, and acceleration
New Data	LA	SCI.8.SI.12	Use data and information gathered to develop an explanation of experimental results
New Data	LA	SCI.8.SI.22	Use evidence and observations to explain and communicate the results of investigations
1902: Success at Last	LA	SCI.8.SI.33	Evaluate models, identify problems in design, and make recommendations for improvement
<b>Learning to Fly: The Wright Brother's Adventure</b>			
<b>2004 Science</b>			
<b>Grade Level Expectations</b>			
<b>Louisiana Science</b>			
<b>Grade 9</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
1901: The First Improvement	LA	SCI.9.PS.34	Demonstrate Newton's three laws of motion (e.g., inertia, net force using $F = ma$ , equal and opposite forces)

New Data	LA	SCI.9.SI.2	Describe how investigations can be observation, description, literature survey, classification, or experimentation
New Data	LA	SCI.9.SI.7	Choose appropriate models to explain scientific knowledge or experimental results (e.g., objects, mathematical relationships, plans, schemes, examples, role-playing, computer simulations)
New Data	LA	SCI.9.SI.9	Write and defend a conclusion based on logical analysis of experimental data
1903: Powered Flight	LA	SCI.9.SI.5	Utilize mathematics, organizational tools, and graphing skills to solve problems
1903: Powered Flight	LA	SCI.9.PS.2	Gather and organize data in charts, tables, and graphs